



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,603	12/29/2003	Richard Doil Lane	030068	8659
23696 7590 03/18/2010 QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121				
EXAMINER NGUYEN, TU X				
ART UNIT 2618		PAPER NUMBER		
NOTIFICATION DATE 03/18/2010		DELIVERY MODE ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com  
kscanla@qualcomm.com  
nanm@qualcomm.com

### Office Action Summary

**Application No.**

10/748,603

**Applicant(s)**

LANE ET AL.

**Examiner**

TU X. NGUYEN

**Art Unit**

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 08 March 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-7,9-19,21-23,25-27,29-34,36-41,43-53 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-7,9-11,14-19,21-23,25-26,33-34,36-39,43,46-53 is/are rejected.
- 7) ☒ Claim(s) 12,13,27,29,31,32,40,44 and 45 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/29/03 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Response to Arguments***

Applicant's arguments with respect to claims 1, 17, 34 and 47, have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-4, 6-7, 9-11, 14-15, 17-20, 22-23, 25-26, 30, 33-34, 36-37, 39, 41, 43 and 46-53, are rejected under 35 U.S.C. 102(e) as being anticipated by Lipsanen et al. (US Pub. 2002/0059614).

Regarding claim 1, Lipsanen et al. discloses a communication system, comprising:

at least a broadcast center (fig.2, 202) wirelessly broadcasting at least one multimedia stream (fig.2, 208);

a first wireless receiver (fig.2, 216) receiving the stream over a wireless broadcast link, wherein the broadcast link is characterized by a first wireless principle (par.068-069); and

a second receiver (fig.2, 112) being provided with control data (par.040, "decryption keys") associated with the multimedia stream over a bidirectional wireless link, wherein the bidirectional wireless link is characterized by a second wireless principle, and wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels, and wherein the first and second wireless principles are different from each other, and wherein the first wireless receiver and the second receiver are both part of the same receiving device (par.036).

Regarding claims 3, 22 and 36, Lipsanen et al. discloses the broadcast link is unidirectional and wherein the first wireless principle is selected from the group consisting of: CDMA principles, GSM principles, OFDM principles (par.059), WCDMA principles, TDMA principles, and TD-SCDMA principles.

Regarding claims 4, 23 and 37, Lipsanen et al. discloses the second wireless principle is selected from the group consisting of: a CDMA link, a GSM link, a 802.11 link, a satellite link, and a Bluetooth link (par.036)

Regarding claims 6 and 25, Lipsanen et al. discloses the first wireless receiver and the second receiver are associated with a mobile communication device having at least one display for displaying the multimedia data (par.035).

Regarding claim 7, Lipsanen et al. discloses the first wireless receiver and the second receiver are associated with a mobile communication device having at least one speaker for presentation of multimedia audio data (par.044).

Regarding claims 9 and 46, Lipsanen et al. discloses services are ordered over the bidirectional link (par.036).

Regarding claims 10 and 33, Lipsanen et al. discloses products are ordered over the bidirectional link (par.040).

Regarding claims 11, 30, 43 and 48, Lipsanen et al. discloses at least one digital broadcast multimedia (DBM) controller useful at least for encrypting (par.033), encoding and/or aggregating the multimedia stream.

Regarding claims 14, 26, 39, 49 and 51, Lipsanen et al. discloses at least one network control center communicating with the DBM controller at least for receiving keys therefrom, the network control center communicating with the second receiver over the bidirectional wireless link (par.040).

Regarding claims 15 and 50, Lipsanen et al. discloses at least one NCC controller associated with the network control center at least for providing to receivers applications related to playing multimedia streams (par.065).

Regarding claims 41 and 52-53, Lipsanen et al. discloses at least one network operations controller (NOC) associated with the broadcast network operations center at least for providing to receivers applications related to playing multimedia streams through a bidirectional wireless link (par.040).

Regarding claim 17, Lipsanen et al. discloses a method for providing a multimedia stream to a wireless communication device, comprising: broadcasting the multimedia stream over a wireless broadcast link to a first receiver, wherein the broadcast link is characterized by a first wireless principle; and transmitting, over a bidirectional wireless link to a second receiver, control data necessary for displaying the multimedia stream on the device, wherein the bidirectional wireless link is characterized

by a second wireless principle, and wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels, and the first and second wireless principles are different from each other, and the first wireless receiver and the second receiver are both part of the same receiving device (fig.2, par.036, 040, 068-069).

Regarding claim 18, Lipsanen et al. discloses at least some control data is transmitted to the wireless device (par.040).

Regarding claim 19, Lipsanen et al. discloses at least some control data is transmitted from the wireless device (par.040 "request data").

Regarding claim 20, Lipsanen et al. discloses the broadcast link is unidirectional (par.033, "DVB-S satellite").

Regarding claim 34, Lipsanen et al. discloses a wireless client station capable of communicating using at least two communication links, comprising: at least one processor receiving on a first receiver a digital multimedia stream received on a wireless broadcast link, wherein the broadcast link is characterized by a first wireless principle and on a second receiver control data received on a bidirectional wireless link, wherein the bidirectional wireless link is characterized by a second wireless principle, wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels and the first and second wireless principles are different from each other, and wherein the wireless client station comprises both the first receiver and the second receiver; wherein the processor uses the control data to enable presentation of the multimedia stream on a display (fig.2, par.036, 040, 068-069).

Regarding claim 47, Lipsanen et al. discloses a system for providing a multimedia stream to a wireless communication device, comprising: means for broadcasting the multimedia stream over a wireless broadcast link to a first receiver, wherein the broadcast link is unidirectional and is characterized by selecting one from the group consisting of: CDMA principles, GSM principles, OFDM principles, WCDMA principles, TDMA, principles, and TD-SCDMA principles; and means for transmitting, over a bidirectional wireless link to a second receiver, wherein the bidirectional wireless link is characterized by selecting one from the group consisting of: a CDMA link, a 802.11 link, a GSM link, a satellite link, and a Bluetooth link, control data necessary for displaying the multimedia stream on the device, wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels, and wherein the first and second receivers are both part of the same receiving device, and the first and second wireless principles are different from each other (fig.2, par.036, 040, 068-069).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5 and 38, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lipsanen et al. (US Pub. 2002/0059614) in view of Tjong et al. (US Pub. 2003/0045316).

Regarding claims 5 and 38, Lipsanen et al. discloses a wireless Bluetooth communication link; however, Lipsanen et al. fails to disclose wherein the bidirectional wireless link is a point- to-point wireless communication link. The Examiner takes an Official notice that the concept a point-to-point wireless communication is available in Bluetooth or cellular link.

***Allowable Subject Matter***

Claims 12-13, 27, 31-32, 29, 40 and 44-45, objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

Regarding claims 12, 31 and 44, the prior art fails to teach the control data includes data useful for de-interleaving, decompressing, and decoding the multimedia stream.

Regarding claims 13, 32 and 45, the prior art fails to teach the control data includes data useful for indexing into the multimedia stream for channel selection and tracking.

Regarding claims 27 and 40, the prior art fails to teach the control data includes data associated with a subscription to a multimedia broadcast service.

Regarding claim 28, the prior art fails to teach the control data includes data related to levels of service related to providing the multimedia stream.



### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Primary Examiner, Art Unit 2618

3/10/10